

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-18 (Canceled).

19. (Currently Amended) A composite comprising:

a wound dressing; and

an anti-adhesive layer comprising a xerogel with silica and at least one hydrophobic organic silicon compound, wherein the anti-adhesive layer has a relative coating weight on the wound dressing from 0.05 % to 5 %; and

an epoxysilane compound effective to provide the anti-adhesive layer with partially hydrophilic properties.

20. (Previously Presented) The composite according to Claim 19, wherein the at least one hydrophobic organic silicon compound comprises at least one compound selected from the group consisting of:

a trialkoxysilane having the formula $R^1Si(OR)_3$, wherein R^1 is an alkyl group having 8 to 18 carbon atoms;

an arylsilane having the formula $R^2Si(OR)_3$, wherein R^2 is an aryl group;

a diarylsilane having the formula $R^2_2Si(OR)_2$, wherein R^2 is an aryl group;

triphenylsilane chloride;

t-butylidiphenylsilane chloride;

hydrophobically modified polysiloxanes having alkyl and/or phenyl side groups;

oleophobic compounds having the formula $R^3Si(OR)_3$, wherein R^3 is a perfluorinated alkyl group; and

oleophobic polysiloxanes having perfluorinated alkyl side chains.

21. (Canceled).

22. (Previously Presented) The composite according to Claim 19, wherein the wound dressing comprises a flat textile form, a foamed plastic or a gel.

23. (Canceled).

24. (Withdrawn) A method for preparing the composite of claim 19, said method comprising:

hydrolyzing tetraalkoxysilanes in an organic, organic-aqueous or aqueous solvent to provide a nanosol,

mixing the at least one hydrophobic organic silicon compound with the nanosol to prepare a coating composition and

applying the coating composition on the wound dressing and drying the coating composition on the wound dressing by solvent removal to form a xerogel layer on the wound dressing.

25. (Withdrawn) The method according Claim 24, wherein the step of applying the coating composition comprises a single-sided coating, a two-sided coating or an impregnation of the wound dressing.

26. (Withdrawn) The method according to Claim 24, wherein the step of applying the coating is implemented as a closed coating or impregnation or as a partly discontinuous coating or impregnation.

27. (Withdrawn) The method according to Claim 24, further comprising a heat treatment step conducted at a temperature from 25°C to 180°C following the drying step.

28. (Withdrawn) The method according to Claim 24, wherein the anti-adhesive coating decreases adhesion between a wound and the wound dressing.

29. (Withdrawn) The method according to Claim 24, wherein the at least one hydrophobic organic silicon compound comprises at least one compound selected from the group consisting of:

a trialkoxysilane having the formula R¹Si(OR)₃, wherein R¹ is an alkyl group having 8 to 18 carbon atoms;

an arylsilane having the formula R²Si(OR)₃, wherein R² is an aryl group;

a diarylsilane having the formula R²Si(OR)₂, wherein R² is an aryl group;

triphenylsilane chloride;

t-butylidiphenylsilane chloride;

hydrophobically modified polysiloxanes having alkyl and/or phenyl side groups;

oleophobic compounds having the formula $R^3Si(OR)_3$, wherein R^3 is a perfluorinated alkyl group; and

oleophobic polysiloxanes having perfluorinated alkyl side chains.

30. (Withdrawn) The method according to Claim 24, in which the coating composition contains an epoxysilane compound effective to provide the wound dressing with partially hydrophilic properties.

Claims 31-32 (Canceled).

33. (Currently Amended) The composite according to Claim 19, wherein the anti-adhesive layer consists essentially of the xerogel with silica, the epoxysilane compound and the at least one hydrophobic organic silicon compound.

34. (New) The composite according to Claim 19, wherein the at least one hydrophobic organic silicon compound comprises at least one compound selected from the group consisting of:

an arylsilane having the formula $R^2Si(OR)_3$, wherein R^2 is an aryl group;

a diarylsilane having the formula $R^2_2Si(OR)_2$, wherein R^2 is an aryl group;

triphenylsilane chloride;

t-butylidiphenylsilane chloride;

hydrophobically modified polysiloxanes having alkyl and/or phenyl side groups;

oleophobic compounds having the formula $R^3Si(OR)_3$, wherein R^3 is a perfluorinated alkyl group; and

oleophobic polysiloxanes having perfluorinated alkyl side chains.

35. (New) A composite comprising:

a wound dressing; and

an anti-adhesive layer comprising a xerogel with silica and at least one hydrophobic organic silicon compound selected from the group consisting of:

a trialkoxysilane having the formula $R^1Si(OR)_3$, wherein R^1 is an alkyl group having 8 to 18 carbon atoms;

an arylsilane having the formula $R^2Si(OR)_3$, wherein R^2 is an aryl group;

a diarylsilane having the formula $R^2_2Si(OR)_2$, wherein R^2 is an aryl group;

triphenylsilane chloride;

t-butylidiphenylsilane chloride;
hydrophobically modified polysiloxanes having alkyl and/or phenyl side groups;
oleophobic compounds having the formula $R^3Si(OR)_3$, wherein R^3 is a perfluorinated alkyl group; and
oleophobic polysiloxanes having perfluorinated alkyl side chains,
wherein the anti-adhesive layer has a relative coating weight on the wound dressing from 0.05 % to 5 %.

36. (New) A composite comprising:
a wound dressing; and
an anti-adhesive layer comprising a xerogel with silica and at least one hydrophobic organic silicon compound selected from the group consisting of:
an arylsilane having the formula $R^2Si(OR)_3$, wherein R^2 is an aryl group;
a diarylsilane having the formula $R^2_2Si(OR)_2$, wherein R^2 is an aryl group;
triphenylsilane chloride;
t-butylidiphenylsilane chloride;
hydrophobically modified polysiloxanes having alkyl and/or phenyl side groups;
oleophobic compounds having the formula $R^3Si(OR)_3$, wherein R^3 is a perfluorinated alkyl group; and
oleophobic polysiloxanes having perfluorinated alkyl side chains,
wherein the anti-adhesive layer has a relative coating weight on the wound dressing from 0.05 % to 5 %.